

Title (en)

SILICA SPHERICAL BODY AND AFFINITY CARRIER

Title (de)

KUGELFÖRMIGE KIESELSÄUREKÖRPER UND AFFINITÄTSTRÄGER

Title (fr)

CORPS SPHÉRIQUE À BASE DE SILICE ET SUPPORT D'AFFINITÉ

Publication

EP 2772466 A1 20140903 (EN)

Application

EP 12843273 A 20121026

Priority

- JP 2011237204 A 20111028
- JP 2012077788 W 20121026

Abstract (en)

To provide an affinity carrier with a low pressure loss and a large binding capacity even when the linear flow rate of a solution to be made to pass therethrough is high. Silica spheres, which satisfy the following conditions: (a) the average particle size is from 30 μm to 40 μm as measured by a laser light scattering method; (b) the ratio (D10/D90) of the particle size (D10) of smaller 10% cumulative volume to the particle size (D90) of 90% cumulative volume in a particle size distribution as measured by a Coulter counter method, is at most 1.50; and (c) the average pore size is from 85 nm to 115 nm and the pore volume is at least 1.5 mL/g, as measured by a mercury intrusion technique.

IPC 8 full level

C01B 33/193 (2006.01); **C07K 17/14** (2006.01); **G01N 30/88** (2006.01)

CPC (source: EP US)

B01D 15/3809 (2013.01 - EP US); **B01J 20/103** (2013.01 - EP US); **B01J 20/28004** (2013.01 - EP US); **B01J 20/28019** (2013.01 - EP US); **B01J 20/28076** (2013.01 - EP US); **B01J 20/28085** (2013.01 - EP US); **B01J 20/286** (2013.01 - EP US); **B01J 20/3085** (2013.01 - EP US); **B01J 20/3204** (2013.01 - EP US); **B01J 20/3274** (2013.01 - EP US); **C01B 33/193** (2013.01 - EP US); **C07K 17/14** (2013.01 - EP US); **C07K 1/22** (2013.01 - EP US)

Cited by

US2018243665A1; WO2017036805A1; US11835501B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2772466 A1 20140903; **EP 2772466 A4 20151209**; CN 103906708 A 20140702; CN 103906708 B 20150923; IN 3278DEN2014 A 20150522; JP 6002142 B2 20161005; JP WO2013062105 A1 20150402; KR 20140086975 A 20140708; US 2014235435 A1 20140821; US 9192914 B2 20151124; WO 2013062105 A1 20130502

DOCDB simple family (application)

EP 12843273 A 20121026; CN 201280052688 A 20121026; IN 3278DEN2014 A 20140423; JP 2012077788 W 20121026; JP 2013540854 A 20121026; KR 20147010424 A 20121026; US 201414262039 A 20140425